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NEWS 19 Aug 09 JAPIO to be reloaded August 18, 2002  
  
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=> s l1 (P) polymorph? site#  
 L2 111 L1 (P) POLYMORPH? SITE#

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L3 ANSWER 1 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
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DN PREV199800121083

TI Allelic polymorphisms in the transcriptional regulatory region of apolipoprotein E gene.

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CS (1) Cent. Biol. Mol. Severo Ochoa, Univ. Autonoma Madrid, Cantoblanco, 28049 Madrid Spain

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DT Article  
LA English

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AN 1996:438039 CAPLUS  
DN 125:134785

TI Diagnostic method and kit for determining Kell blood group genotype

IN Lee, Soohee; Redman, Colvin L.  
PA New York Blood Center, Inc., USA  
SO PCT Int. Appl., 140 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9615268	A1	19960523	WO 1995-US14684	19951109
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5589336	A	19961231	US 1994-337268	19941110
	US 5804379	A	19980908	US 1995-484570	19950607
	AU 9642353	A1	19960606	AU 1996-42353	19951109
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	R: AT, CH, DE, FR, GB, IT, LI, NL, SE				
	JP 10509867	T2	19980929	JP 1995-516237	19951109
PRAI	US 1994-337268		19941110		
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AN 1995:993898 CAPLUS  
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AU Vorechovsky, Igor; Luo, Liping; de Saint Basile, Genevieve; Hammarstroem, Lennart; Webster, A. David B.; Smith, C. I. Edvard  
CS MRC Immunodeficiency Research Group, Royal Free Hospital of Medicine, London, NW3 2PF, UK  
SO Hum. Mol. Genet. (1995), 4(12), 2403-05  
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19  
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TI Genomic instability and LOH at two polymorphic sites in the H-ras1 gene.  
AU Kotsinas, A.; Vageli, D.; Varakliotou, A.; Anezinis, P.; Cranidis, A.; Spandidos, D. A (1)  
CS (1) Inst. Biological Res. Biotechnol., Natl. Hellenic Res. Found., 48 Vas. Constantinou Ave., Athens 11635 Greece  
SO International Journal of Oncology, (1994) Vol. 5, No. 6, pp. 1249-1253.  
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DT Article  
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L3 ANSWER 19 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS  
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AB In this work, we explored the existence of genetic variants within the apolipoprotein E gene transcriptional regulatory region, using a denaturing gradient gel electrophoresis screening of a region comprising nucleotides -1017 to +406. Upon a population study, three new **polymorphic sites** (-491, -427 and -219) and two mutations were found. Functional effects of the polymorphisms, assayed by transient transfection and electrophoretic mobility shift assays in a human hepatoma cell line, showed that polymorphisms at sites -491 and -219 of the APOE promoter produce variations in the transcriptional activity of the gene, most probably through **differential** binding of nuclear proteins.

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AB The invention provides a diagnostic method of detg. Kell genotype by the identification of the mol. basis of a Kell polymorphism. Specifically, the invention provides a method for detg. K1/K2 genotype with great accuracy, overcoming problems assocd. with traditional serol. typing methods. The diagnostic method of the invention preferably employs amplification of K1/K2 nucleic acid sequences, and optionally employs **differential** cleavage of K1-K2-specific nucleic acid sequences by a restriction enzyme. Also provided are nucleic acid oligomers useful as probes or primers for the method of the invention. Furthermore, diagnostic kits for the detn. of Kell genotype are provided. Thus, the complete sequence of the KEL gene from a human placental genomic DNA library indicated that the gene is organized into 19 exons. PCR cloning and sequencing indicated the mol. basis for the K1/K2, K6/K7, K10/K(-10), and K3/K4/K21 polymorphisms: the K1/K2 polymorphism occurs in exon 6 resulting in a Thr192.fwdarw.Met substitution in the Kell protein; the K6/K7 polymorphism is in exon 17 resulting in a Leu597.fwdarw.Pro substitution; a point exon 13 results in Glu496.fwdarw.Val for the K10/K(-10) polymorphism; and the K3/K4/K21 polymorphism is in exon 8 with an Arg281.fwdarw.Trp.fwdarw.Gln substitution. Each of these **polymorphic sites** cleavable by specific restriction endonucleases (BsmI for K1/K2, MnII or DdeI for K6/K7, AccI for K10/K(-10), and NlaIII or PvuII for K3/K4/K21) or amplifiable by allele-specific PCR primers. In addn., alloimmunization can be detd.

with

Kell antigen peptide probes reactive to anti-Kell antibodies.

L3 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2002 ACS

AB For rapid individual anal. of patients with X-linked agammaglobulinemia (XLA) and for disease carriers, an exon-scanning approach has been developed using a single PCR to amplify all exons and the putative promoter region with a single annealing temp. and with the same PCR conditions for all amplified segments. This oligonucleotide primer set has now been improved to amplify individually all Bruton's tyrosine kinase

(BTK) exons, to **enhance** the yield and purity of the PCR products, to avoid described **polymorphic sites** in the amplified segments, and to solve inconsistencies in the intronic sequences generated independently by several groups. Novel missense mutations

I429N

and M477R were identified. Thus, a rapid and efficient system for mutation detection of the BTK gene is presented which allows an improved mol. diagnosis of individual patients with XLA, including presymptomatic testing for a putative gene defect and **differential** diagnosis of

human primary immunodeficiencies with a reduced no. of B-cells. A non-random distribution of amino acid substitutions along the enzyme domains has been demonstrated using the available BTK mutation pattern in patients with XLA.

L3 ANSWER 27 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS  
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AB Several repetitive elements have been associated with and identified in the surrounding region and within the human c-H-ras1 gene. The polymorphism exhibited by these sites provides valuable information regarding the function and structure of the H-ras gene. We have investigated two such **polymorphic sites**: i) a hexanucleotide microsatellite region (HRMS) within intron 1 of H-ras and ii) the VTR region at the 3' end of the gene. Comparison between normal and tumor tissues from 25 samples of bladder cancer revealed that 5 samples (20%) exhibited LOH at these **polymorphic sites** indicating that an allelic loss had occurred at the H-ras locus. Furthermore, instability was detected in 4 cases at the hexanucleotide locus, while the VTR region was found unaffected. The two **polymorphic sites** are in a strong linkage disequilibrium in normal tissues, while in tumor tissues with genomic instability this linkage is altered, possibly leading to **differential** regulation of the H-ras. Also a previously reported allele at the HRMS locus was found to behave in a manner that preserves the linkage between the two **polymorphic sites** in normal tissues.

=> s PCR amplification (S) stem loop primers  
L4 0 PCR AMPLIFICATION (S) STEM LOOP PRIMERS

=> s PCR amplification (S) hairpin primers  
L5 0 PCR AMPLIFICATION (S) HAIRPIN PRIMERS

=> s PCR amplification and hairpin primers  
L6 1 PCR AMPLIFICATION AND HAIRPIN PRIMERS

=> d 16

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 2002:555680 CAPLUS  
TI Fluorescent dye-labeled primers containing base or sugar analogs for improved sensitivity and control of artifacts in nucleic acid amplification  
IN Nazarenko, Irina; Rashtchian, Ayoub; Solus, Joseph; Pires, Richard M.; Darfler, Marlene; Gebeyehu, Gulilat; Astatke, Mekbib  
PA Invitrogen Corporation, USA  
SO PCT Int. Appl., 307 pp.

CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002057479	A2	20020725	WO 2001-US50460	20011227
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,				

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
PRAI US 2000-748146 A 20001227  
US 2001-330468P P 20011023

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